

Store at
-20°C
#14182

MRP3/ABCC3 (D1W1P) Rabbit mAb

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Entrez-Gene ID #8714
UniProt ID #015438

New 07/14

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications W, IP Endogenous	Species Cross-Reactivity* H	Molecular Wt. 160-220 kDa	Isotype Rabbit IgG**
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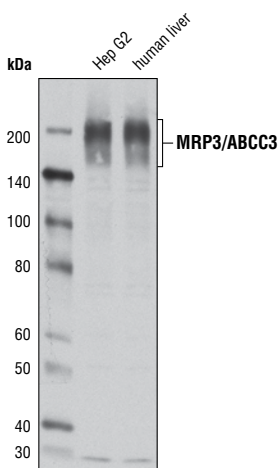
Background: MRP3/ABCC3 belongs to the super family of ATP-binding cassette (ABC) transporters. It is a member of the MRP subfamily that is expressed in various organs including liver, gallbladder, small intestine, colon, kidney, and adrenal gland (1-3). MRP3 is involved in multi-drug resistance (1). It facilitates the efflux of organic anions including monoanionic bile acid and anti cancer reagents such as etoposide and paclitaxel from liver and small intestine into blood (4-7). Expression of MRP3 is increased in the cholestatic human and rat liver, suggesting its role in cholehepatic and enterohepatic bile circulation and in protecting liver from toxic bile salts (2,8). MRP3 expression is also upregulated in people with Dubin-Johnson Syndrome (DJS) who lack functional MRP2 in liver, which implicates the compensatory role of MRP3 in the absence of functional MRP2 (4).

Elevated expression of MRP3 has been detected in various cancer types such as hepatocellular carcinomas, primary ovarian cancer, and adult acute lymphoblastic leukemia (ALL) (9-11). Overexpression of MRP3 was reported to be a prognostic factor in ALL and adult acute myeloid leukemia (AML) (11,12).

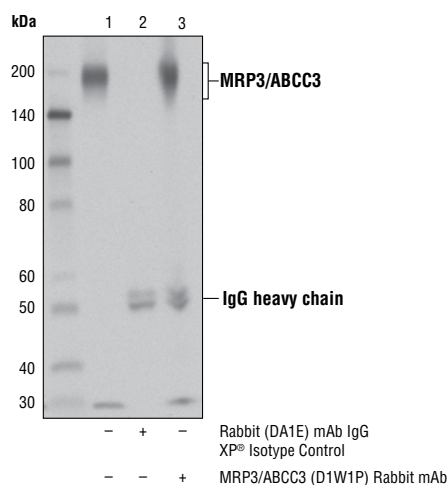
Specificity/Sensitivity: MRP3/ABCC3 (D1W1P) Rabbit mAb recognizes endogenous levels of total MRP3/ABCC3 protein. This antibody also recognizes overexpressed but not endogenous MRP1 protein

Source/Purification: Monoclonal antibody is produced by immunizing animals with recombinant protein surrounding Gly870 of human MRP3 protein.

Immunoprecipitation of MRP3/ABCC3 from Hep G2 cell extracts using Rabbit (DA1E) mAb IgG XP[®] Isotype Control #3900 (lane 2) or MRP3/ABCC3 (D1W1P) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using MRP3/ABCC3 (D1W1P) Rabbit mAb.



Western blot analysis of extracts from Hep G2 cells and human liver using MRP3/ABCC3 (D1W1P) Rabbit mAb.



Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

Background References:

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- (2) Scheffer, G.L. et al. (2002) *Lab Invest* 82, 193-201.
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- (6) Belinsky, M.G. et al. (2005) *Mol Pharmacol* 68, 160-8.
- (7) Dickerson, W.G. (1992) *Dent Today* 11, 54-5.
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- (11) Plasschaert, S.L. et al. (2005) *Clin Cancer Res* 11, 8661-8.
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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween[®]20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.